A-688A.ST25.txt
SEQUENCE LISTING

<110>   FEIGE, ULRICH
         KOHNO, TADAHIKO
         LACEY, DAVID LEE
         BOONE, THOMAS CHARLES

<120>   INTEGRIN/ADHESION ANTAGONISTS

<130>   A-688A

<140>   09/840,277
<141>   2001-04-23

<150>   60/198,919
<151>   2000-04-21

<150>   60/201,394
<151>   2000-05-03

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<170>   PatentIn version 3.1

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Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
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ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc   96
Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
                20   25   30

atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gtg gac gtg agc   144
Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
            35   40   45

cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag   192
His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
        50   55   60

gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc acg   240
Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
65   70   75   80

tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat   288
Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
                85   90   95

ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc   336
Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
                100   105   110

atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag   384
Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
        115   120   125

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gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc    432
Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
    130                 135                 140

agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtg    480
Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
145                 150                 155                 160

gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct    528
Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
                165                 170                 175

ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc    576
Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
            180                 185                 190

gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg    624
Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
        195                 200                 205

atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg    672
Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
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tct ccg ggt aaa                                                     684
Ser Pro Gly Lys
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Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
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Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
            35                  40                  45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
    50                  55                  60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
65                  70                  75                  80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
                85                  90                  95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
            100                 105                 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
            115                 120                 125
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Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
    130                 135                 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
145                 150                 155                 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
                165                 170                 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
                180                 185                 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
        195                 200                 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
    210                 215                 220

Ser Pro Gly Lys
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Gly Gly Gly Lys Gly Gly Gly Gly
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Gly Gly Gly Asn Gly Ser Gly Gly
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<220>
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<210> 8
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Gly Thr Ile Cys Lys Arg Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys
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Asn Gly Lys Thr Cys Asp Cys Pro Arg Asn Pro His Lys Gly Pro Ala
        35   40   45

Thr

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<221> misc_feature

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Arg Xaa Glu Thr Xaa Trp Xaa
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<210> 10
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<223> Xaa is any amino acid

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Arg Xaa Glu Thr Xaa Trp Xaa
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<210> 11
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Cys Xaa Xaa Arg Leu Asp Xaa Xaa Cys
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<210> 12
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<223> Xaa is any amino acid

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<210>  13
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<220>
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<223>  Xaa is any amino acid


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Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa
1                   5


<210>  14
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<220>
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<223>  Xaa is any amino acid



<400>  14

Cys Xaa Cys Arg Gly Asp Cys Xaa Cys
1                   5


<210>  15
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<221>  misc_feature
<222>  (6)..(6)
<223>  Xaa is selected from tryptophan and Leucine
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<400> 15

Xaa Xaa Asp Asp Xaa Xaa Xaa Xaa
1   5

<210> 16
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Xaa Xaa Xaa Asp Asp Xaa Xaa Xaa Xaa Xaa
1   5   10

<210> 17
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<400> 17

Arg Lys Xaa Asn Xaa Xaa Trp Thr Trp Val Gly Thr Xaa Lys Xaa Leu
1   5   10   15

Thr Glu Glu

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<210>  18
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Cys Xaa Xaa Xaa Tyr Thr Xaa Leu Val Ala Ile Gln Asn Lys Xaa Glu
1               5                   10                  15


<210>  19
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<222>  (3, 4, 5, 6, 8, 13, 15 )..(18)
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<400>  19

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1               5                   10                  15


Thr Xaa Glu


<210>  20
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<223>  Xaa is any naturally occuring amino acid residue.


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1               5                   10                  15


<210>  21
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<213> Artificial Sequence

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<223> Xaa is any naturally occuring amino acid residue.

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1   5   10

<210> 22
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<400> 22

Cys Leu Cys Arg Gly Asp Cys Ile Cys
1   5

<210> 23
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<400> 23

Cys Trp Asp Asp Gly Trp Leu Cys
1   5

<210> 24
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<400> 24

Cys Trp Asp Asp Leu Trp Trp Leu Cys
1   5

<210> 25
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Cys Trp Asp Asp Gly Leu Met Cys
1   5

<210> 26
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<400> 26

Cys Trp Asp Asp Gly Trp Met Cys
1   5

<210> 27
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Cys Ser Trp Asp Asp Gly Trp Leu Cys
1   5

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<400> 28

Cys Pro Asp Asp Leu Trp Trp Leu Cys
1   5

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<400> 29

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<400> 30

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<400> 31

Arg Gly Asp
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<210> 32
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Cys Gly Arg Glu Cys Pro Arg Leu Cys Gln Ser Ser Cys
1   5   10

<210> 33
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Cys Asn Gly Arg Cys Val Ser Gly Cys Ala Gly Arg Cys
1   5   10

<210> 34
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<400> 34

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1   5

<210> 35
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<400> 35

Gly Ser Leu
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<210> 36
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<400> 36

Asn Gly Arg Ala His Ala
1   5

<210> 37
<211> 5
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Cys Asn Gly Arg Cys
1   5

<210> 38
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1   5

<210> 39
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<400> 39

Cys Gly Ser Leu Val Arg Cys
1   5

<210> 40
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<210> 41
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1   5   10

<210> 42
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1   5   10

<210> 43
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<400> 43

Arg Thr Asp Leu Asp Ser Leu Arg Thr
1   5

<210> 44
<211> 8
<212> PRT
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<220>
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<400> 44

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1   5

<210>   45
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<220>
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<400>   45

Gly Asp Leu Asp Leu Leu Lys Leu Arg Leu Thr Leu
1   5   10

<210>   46
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<220>
<223>   Integrin antagonist peptide

<400>   46

Gly Asp Leu His Ser Leu Arg Gln Leu Leu Ser Arg
1   5   10

<210>   47
<211>   12
<212>   PRT
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<220>
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Arg Asp Asp Leu His Met Leu Arg Leu Gln Leu Trp
1   5   10

<210>   48
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<220>
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Ser Ser Asp Leu His Ala Leu Lys Lys Arg Tyr Gly
1   5   10

<210>   49
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<212>   PRT
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<220>
<223>   Integrin antagonist peptide

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1   5   10

<210> 50
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<400> 50

Cys Xaa Xaa Arg Gly Asp Cys
1   5

<210> 51
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<212> PRT
<213> Artificial Sequence

<220>
<223> Integrin antagonist peptide

<400> 51

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Gly Val Ser
1   5   10   15

Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg
            20   25

<210> 52
<211> 27
<212> PRT
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<220>
<223> Integrin antagonist peptide

<400> 52

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Arg Val Ser
1   5   10   15

Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg
            20   25

<210> 53
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<220>
<223>   Integrin antagonist peptide

<400>   53

Ser Arg Gly Val Asn Phe Ser Glu Trp Leu Tyr Asp Met Ser Ala Ala
1   5   10   15

Met Lys Glu Ala Ser Asn Val Phe Pro Ser Arg Arg Ser Arg
            20   25   30

<210>   54
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<220>
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<400>   54

Ser Ser Gln Asn Trp Asp Met Glu Ala Gly Val Glu Asp Leu Thr Ala
1   5   10   15

Ala Met Leu Gly Leu Leu Ser Thr Ile His Ser Ser Ser Arg
            20   25   30

<210>   55
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<220>
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<400>   55

Ser Ser Pro Ser Leu Tyr Thr Gln Phe Leu Val Asn Tyr Glu Ser Ala
1   5   10   15

Ala Thr Arg Ile Gln Asp Leu Leu Ile Ala Ser Arg Pro Ser Arg
            20   25   30

<210>   56
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<220>
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<400>   56

Ser Ser Thr Gly Trp Val Asp Leu Leu Gly Ala Leu Gln Arg Ala Ala
1   5   10   15

Asp Ala Thr Arg Thr Ser Ile Pro Pro Ser Leu Gln Asn Ser Arg
            20   25   30

<210>   57

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<220>
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<400>  57

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1               5                   10                  15


Glu Lys



<210>  58
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<400>  58

Arg Gly Asp Gly Xaa
1               5


<210>  59
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<220>
<221>  misc_feature
<222>  (6)..(6)
<223>  Xaa is any amino acid residue


<400>  59

Cys Arg Gly Asp Gly Xaa Cys
1               5


<210>  60
<211>  9
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Integrin antagonist peptide

<400>  60

Cys Ala Arg Arg Leu Asp Ala Pro Cys
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1   5

<210> 61
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Integrin antagonist peptide

<400> 61

Cys Pro Ser Arg Leu Asp Ser Pro Cys
1   5

<210> 62
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Integrin antagonist peptide

<400> 62

Cys Asp Cys Arg Gly Asp Cys Phe Cys
1   5

<210> 63
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 63

Cys Asp Cys Arg Gly Asp Cys Leu Cys
1   5

<210> 64
<211> 12
<212> PRT
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<220>
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<400> 64

Arg Gly Asp Leu Ala Ala Leu Ser Ala Pro Pro Val
1   5   10

<210> 65
<211> 12
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<220>
<223> Selectin antagonist peptide

<400> 65

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1               5                   10
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<210> 66
<211> 12
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<213> Artificial Sequence

<220>
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<400> 66

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Asp Ile Thr Trp Asp Glu Leu Trp Lys Ile Met Asn
1               5                   10
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<210> 67
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<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 67

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Asp Tyr Thr Trp Phe Glu Leu Trp Asp Met Met Gln
1               5                   10
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<210> 68
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<220>
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<400> 68

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Gln Ile Thr Trp Ala Gln Leu Trp Asn Met Met Lys
1               5                   10
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<210> 69
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<220>
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<400> 69

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1               5                   10
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<210> 70
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<400> 70

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1   5   10

<210> 71
<211> 12
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<220>
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<400> 71

Glu Ile Thr Trp Asp Gln Leu Trp Glu Val Met Asn
1   5   10

<210> 72
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<400> 72

His Val Ser Trp Glu Gln Leu Trp Asp Ile Met Asn
1   5   10

<210> 73
<211> 12
<212> PRT
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<220>
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<400> 73

His Ile Thr Trp Asp Gln Leu Trp Arg Ile Met Thr
1   5   10

<210> 74
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<400> 74

Arg Asn Met Ser Trp Leu Glu Leu Trp Glu His Met Lys
1   5   10

<210> 75
<211> 18
<212> PRT
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<220>
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<400> 75

Ala Glu Trp Thr Trp Asp Gln Leu Trp His Val Met Asn Pro Ala Glu
1   5   10   15

Ser Gln

<210> 76
<211> 14
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<220>
<223> Selectin antagonist peptide

<400> 76

His Arg Ala Glu Trp Leu Ala Leu Trp Glu Gln Met Ser Pro
1   5   10

<210> 77
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 77

Lys Lys Glu Asp Trp Leu Ala Leu Trp Arg Ile Met Ser Val
1   5   10

<210> 78
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 78

Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
1   5   10

<210> 79
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 79

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
1   5   10

<210> 80
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 80

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
1   5   10

<210> 81
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 81

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys
1   5   10

<210> 82
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 82

Cys Gln Asn Arg Tyr Thr Asp Leu Val Ala Ile Gln Asn Lys Asn Glu
1   5   10   15

<210> 83
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 83

Ala Glu Asn Trp Ala Asp Asn Glu Pro Asn Asn Lys Arg Asn Asn Glu
1   5   10   15

Asp

<210> 84
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 84

Arg Lys Asn Asn Lys Thr Trp Thr Trp Val Gly Thr Lys Lys Ala Leu
1   5   10   15

Thr Asn Glu

<210> 85
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<400> 85

Lys Lys Ala Leu Thr Asn Glu Ala Glu Asn Trp Ala Asp
1   5   10

<210> 86
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<220>
<221> misc_feature
<222> (3 and)..(15)
<223> Xaa is any amino acid residue

<400> 86

Cys Gln Xaa Arg Tyr Thr Asp Leu Val Ala Ile Gln Asn Lys Xaa Glu
1   5   10   15

<210> 87
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Selectin antagonist peptide

<220>
<221> misc_feature
<222> (13 and)..(15)
<223> Xaa is any amino acid residue

<400> 87

Ala Glu Asn Trp Ala Asp Gly Glu Pro Asn Asn Lys Xaa Asn Xaa Glu
1   5   10   15

Asp

<210> 88
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Vinculin binding peptide

<400> 88

Ser Ser Gln Asn Trp Asp Met Glu Ala Gly Val Glu Asp Leu Thr Ala
1   5   10   15

Ala Met Leu Gly Leu Leu Ser Thr Ile His Ser Ser Ser Arg
            20   25   30

<210> 89
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Vinculin binding peptide

<400> 89

Ser Ser Pro Ser Leu Tyr Thr Gln Phe Leu Val Asn Tyr Glu Ser Ala
1   5   10   15

Ala Thr Arg Ile Gln Asp Leu Leu Ile Ala Ser Arg Pro Ser Arg
            20   25   30

<210> 90
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Vinculin binding peptide

<400> 90

Ser Ser Thr Gly Trp Val Asp Leu Leu Gly Ala Leu Gln Arg Ala Ala
1   5   10   15

Asp Ala Thr Arg Thr Ser Ile Pro Pro Ser Leu Gln Asn Ser Arg
            20   25   30

<210> 91
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Vinculin binding peptide

<400> 91

Asp Val Tyr Thr Lys Lys Glu Leu Ile Glu Cys Ala Arg Arg Val Ser
1   5   10   15

Glu Lys

<210> 92
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Vinculin binding peptide

<400> 92

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Gly Val Ser
1   5   10   15

Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg
            20   25

<210> 93
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Vinculin binding peptide

<400> 93

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Arg Val Ser
1   5   10   15

Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg
            20   25

<210> 94
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Vinculin binding peptide

<400> 94

Ser Arg Gly Val Asn Phe Ser Glu Trp Leu Tyr Asp Met Ser Ala Ala
1   5   10   15

Met Lys Glu Ala Ser Asn Val Phe Pro Ser Arg Arg Ser Arg
            20   25   30

<210> 95
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Laminin related peptide

<400> 95

Arg Glu Asp Val Glu Ile Leu Asp Val Tyr Ile Gly Ser Arg Pro Asp
1   5   10   15

Ser Gly Arg

<210> 96
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Laminin related peptide

<400> 96

Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro Asp
1   5   10   15

Ser Gly Arg

<210> 97
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Used to form echistatin template for PCR

<400> 97
gggggggcata tggaatgtga atctggtcca tgctgcagaa actg   44

<210> 98
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Used to form echistatin template for PCR

<400> 98
taagttcttg aaggaaggta ccatctgtaa gagagctaga ggtg   44

<210> 99
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Used to form echistatin template for PCR

<400> 99
acgacatgga cgactactgt aacggtaaga cctgtgactg cccg   44

<210> 100
<211> 51
<212> DNA
<213> Artificial Sequence

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<220>
<223>  Used to form echistatin template for PCR

<400>  100
agaaacccac acaagggtcc agctacttaa tggatccgcg gccgcccagc t          51


<210>  101
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Used to form echistatin template for PCR

<400>  101
ttcaagaact tacagtttct gcag                                        24


<210>  102
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Used to form echistatin template for PCR

<400>  102
cgtccatgtc gtcacctcta gctc                                        24


<210>  103
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Used to form echistatin template for PCR

<400>  103
gtgtgggttt ctcgggcagt caca                                        24


<210>  104
<211>  48
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  PCR primer

<400>  104
ccgggtaaag gtggaggtgg tggtgaatgt gaatctggtc catgctgc              48


<210>  105
<211>  48
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  PCR primer

<400>  105
ccgggtaaag gtggaggtgg tggtgaatgt gaatctggtc catgctgc              48


<210>  106
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<211>  22
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  PCR primer

<400>  106
aacataagta cctgtaggat cg                                              22


<210>  107
<211>  49
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  PCR primer

<400>  107
gcagcatgga ccagattcac attcaccacc acctccacct ttacccgga               49


<210>  108
<211>  859
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Echistatin Fc-peptide

<220>
<221>  CDS
<222>  (4)..(849)
<223>

<220>
<221>  misc_feature
<222>  (1)..(1)
<223>  NdeI site

<220>
<221>  misc_feature
<222>  (854)..(854)
<223>  BamHI site


<400>  108
cat atg gac aaa act cac aca tgt cca cct tgt cca gct ccg gaa ctc     48
    Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
    1               5                   10                  15

ctg ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc     96
Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
                20                  25                  30

ctc atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gtg gac gtg    144
Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
            35                  40                  45

agc cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg    192
Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
        50                  55                  60

gag gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc    240
Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
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acg tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg    288
Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
80              85              90                      95

aat ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc    336
Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
                100             105             110

ccc atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca    384
Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
            115             120             125

cag gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag    432
Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
        130             135             140

gtc agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc    480
Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
    145             150             155

gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg    528
Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
160             165             170             175

cct ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc    576
Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
            180             185             190

acc gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc    624
Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
            195             200             205

gtg atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc    672
Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
            210             215             220

ctg tct ccg ggt aaa ggt gga ggt ggt ggt gaa tgt gaa tct ggt cca    720
Leu Ser Pro Gly Lys Gly Gly Gly Gly Gly Glu Cys Glu Ser Gly Pro
    225             230             235

tgc tgc aga aac tgt aag ttc ttg aag gaa ggt acc atc tgt aag aga    768
Cys Cys Arg Asn Cys Lys Phe Leu Lys Glu Gly Thr Ile Cys Lys Arg
240             245             250             255

gct aga ggt gac gac atg gac gac tac tgt aac ggt aag acc tgt gac    816
Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys Asn Gly Lys Thr Cys Asp
            260             265             270

tgc ccg aga aac cca cac aag ggt cca gct act taatggatcc             859
Cys Pro Arg Asn Pro His Lys Gly Pro Ala Thr
            275             280
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<210>    109
<211>    282
<212>    PRT
<213>    Artificial Sequence

<220>
<223>    Echistatin Fc-peptide

<220>
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<222>    (1)..(1)
<223>    NdeI site
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<220>
<221>   misc_feature
<222>   (1)..(1)
<223>   NdeI site

<220>
<221>   misc_feature
<222>   (854)..(854)
<223>   BamHI site

<400>   109
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Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
1               5                   10                  15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
            20                  25                  30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
            35                  40                  45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
        50                  55                  60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
65                  70                  75                  80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
                85                  90                  95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
            100                 105                 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
            115                 120                 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
    130                 135                 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
145                 150                 155                 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
                165                 170                 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
            180                 185                 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
        195                 200                 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
    210                 215                 220

Ser Pro Gly Lys Gly Gly Gly Gly Gly Glu Cys Glu Ser Gly Pro Cys
225                 230                 235                 240

Cys Arg Asn Cys Lys Phe Leu Lys Glu Gly Thr Ile Cys Lys Arg Ala
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```
          245                  250                        255
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```
Arg Gly Asp Asp Met Asp Asp Tyr Cys Asn Gly Lys Thr Cys Asp Cys
            260                  265                270


Pro Arg Asn Pro His Lys Gly Pro Ala Thr
            275                  280



<210>  110
<211>  140
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  pAMG21

<220>
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<223>  AatII site


<220>
<221>  misc_feature
<222>  (140)..(140)
<223>  claI site


<400>  110
ctaattccgc tctcacctac caaacaatgc ccccctgcaa aaaataaatt cataaaaaaa      60

catacagata accatctgcg gtgataaatt atctctggcg gtgttgacat aaataccact     120

ggcggtgata ctgagcacat                                                 140


<210>  111
<211>  55
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  pAMG21

<220>
<221>  misc_feature
<222>  (1)..(1)
<223>  ClaI site


<220>
<221>  misc_feature
<222>  (55)..(55)
<223>  KpnI site


<400>  111
cgatttgatt ctagaaggag gaataacata tggttaacgc gttggaattc ggtac           55


<210>  112
<211>  1546
<212>  DNA
<213>  Artificial Sequence
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<220>
<223> pAMG21

<220>
<221> misc_feature
<222> (1)..(1)
<223> AatII sticky end

<220>
<221> misc_feature
<222> (1546)..(1546)
<223> SacII sticky end

<400> 112

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gcgtaacgta tgcatggtct ccccatgcga gagtagggaa ctgccaggca tcaaataaaa      60

cgaaaggctc agtcgaaaga ctgggccttt cgttttatct gttgtttgtc ggtgaacgct     120

ctcctgagta ggacaaatcc gccgggagcg gatttgaacg ttgcgaagca acggcccgga     180

gggtggcggg caggacgccc gccataaact gccaggcatc aaattaagca gaaggccatc     240

ctgacggatg gcctttttgc gtttctacaa actcttttgt ttattttct aaatacattc      300

aaatatggac gtcgtactta acttttaaag tatgggcaat caattgctcc tgttaaaatt     360

gctttagaaa tactttggca gcggtttgtt gtattgagtt tcatttgcgc attggttaaa     420

tggaaagtga ccgtgcgctt actacagcct aatattttg aaatatccca agagctttt      480

ccttcgcatg cccacgctaa acattctttt tctcttttgg ttaaatcgtt gtttgattta     540

ttatttgcta tatttatttt tcgataatta tcaactagag aaggaacaat taatggtatg     600

ttcatacacg catgtaaaaa taaactatct atatagttgt ctttctctga atgtgcaaaa     660

ctaagcattc cgaagccatt attagcagta tgaatatggga aactaaaccc agtgataaga     720

cctgatgatt tcgcttcttt aattacattt ggagattttt tatttacagc attgttttca     780

aatatattcc aattaatcgg tgaatgattg gagttagaat aatctactat aggatcatat     840

tttattaaat tagcgtcatc ataatattgc ctccattttt tagggtaatt atccagaatt     900

gaaatatcag atttaaccat agaatgagga taaatgatcg cgagtaaata atattcacaa     960

tgtaccattt tagtcatatc agataagcat tgattaatat cattattgct tctacaggct    1020

ttaattttat taattattct gtaagtgtcg tcggcattta tgtctttcat acccatctct    1080

ttatccttac ctattgtttg tcgcaagttt tgcgtgttat atatcattaa aacggtaata    1140

gattgacatt tgattctaat aaattggatt tttgtcacac tattatatcg cttgaaatac    1200

aattgtttaa cataagtacc tgtaggatcg tacaggttta cgcaagaaaa tggtttgtta    1260

tagtcgatta atcgatttga ttctagattt gttttaacta attaaaggag gaataacata    1320

tggttaacgc gttggaattc gagctcacta gtgtcgacct gcagggtacc atggaagctt    1380

actcgaggat ccgcggaaag aagaagaaga agaagaaagc cgaaaggaa gctgagttgg     1440

ctgctgccac cgctgagcaa taactagcat aaccccttgg ggcctctaaa cgggtcttga    1500

ggggtttttt gctgaaagga ggaaccgctc ttcacgctct tcacgc                   1546
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<210> 113
<211> 872
<212> DNA
<213> Artificial Sequence

<220>
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<400> 113
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gttagatatt tatcccttgc ggtgatagat tgagcacatc gatttgattc tagaaggagg    120

gataatatat gagcacaaaa aagaaaccat taacacaaga gcagcttgag gacgcacgtc    180

gccttaaagc aatttatgaa aaaagaaaa atgaacttgg cttatcccag gaatctgtcg      240

cagacaagat ggggatgggg cagtcaggcg ttggtgcttt atttaatggc atcaatgcat    300

taaatgctta taacgccgca ttgcttacaa aaattctcaa agttagcgtt gaagaattta    360

gcccttcaat cgccagagaa tctacgagat gtatgaagcg gttagtatgc agccgtcact    420

tagaagtgag tatgagtacc ctgttttttc tcatgttcag gcagggatgt tctcacctaa    480

gcttagaacc tttaccaaag gtgatgcgga gagatgggta agcacaacca aaaaagccag    540

tgattctgca ttctggcttg aggttgaagg taattccatg accgcaccaa caggctccaa    600

gccaagcttt cctgacggaa tgttaattct cgttgaccct gagcaggctg ttgagccagg    660

tgatttctgc atagccagac ttggggggtga tgagtttacc ttcaagaaac tgatcaggga    720

tagcggtcag gtgtttttac aaccactaaa cccacagtac ccaatgatcc catgcaatga    780

gagttgttcc gttgtgggga aagttatcgc tagtcagtgg cctgaagaga cgtttggctg    840

atagactagt ggatccacta gtgtttctgc cc                                   872
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<210> 114
<211> 1197
<212> DNA
<213> Artificial Sequence

<220>
<223> GM221

<400> 114
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cggaagagag tcaattcagg gtggtgaatg tgaaaccagt aacgttatac gatgtcgcag    120

agtatgccgg tgtctcttat cagaccgttt ccgcgtggt gaaccaggcc agccacgttt    180

ctgcgaaaac gcgggaaaaa gtcgaagcgg cgatggcgga ctgaattac attcccaacc     240

gcgtggcaca caactggcg ggcaaacagt cgctcctgat tggcgttgcc acctccagtc    300

tggccctgca cgcgccgtcg caaattgtcg cggcgattaa atctcgcgcc gatcaactgg    360

gtgccagcgt ggtggtgtcg atggtagaac gaagcggcgt cgaagcctgt aaagcggcgg    420

tgcacaatct tctcgcgcaa cgcgtcagtg ggctgatcat taactatccg ctggatgacc    480

aggatgccat tgctgtggaa gctgcctgca ctaatgttcc ggcgttattt cttgatgtct    540
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ctgaccagac acccatcaac agtattattt tctcccatga agacggtacg cgactgggcg    600

tggagcatct ggtcgcattg ggtcaccagc aaatcgcgct gttagcgggc ccattaagtt    660

ctgtctcggc gcgtctgcgt ctggctggct ggcataaata tctcactcgc aatcaaattc    720

agccgatagc ggaacgggaa ggcgactgga gtgccatgtc cggttttcaa caaaccatgc    780

aaatgctgaa tgagggcatc gttcccactg cgatgctggt tgccaacgat cagatggcgc    840

tgggcgcaat gcgcgccatt accgagtccg ggctgcgcgt tggtgcggat atctcggtag    900

tgggatacga cgataccgaa gacagctcat gttatatccc gccgttaacc accatcaaac    960

aggattttcg cctgctgggg caaaccagcg tggaccgctt gctgcaactc tctcagggcc   1020

aggcggtgaa gggcaatcag ctgttgcccg tctcactggt gaaaagaaaa accaccctgg   1080

cgcccaatac gcaaaccgcc tctccccgcg cgttggccga ttcattaatg cagctggcac   1140

gacaggtttc ccgactggaa agcggacagt aaggtaccat aggatccagg cacagga      1197
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<210> 115
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Laminin related peptide

<400> 115

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Met Tyr Ile Gly Ser Arg Gly Gly Gly Gly Gly
1               5                   10
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<210> 116
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Laminin related peptide

<400> 116

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Met Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
1               5                   10                  15
```

<210> 117
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Laminin related peptide

<400> 117

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Met Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
1               5                   10                  15


Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
            20                  25
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<210> 118
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Laminin related peptide

<400> 118

Met Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp
1   5   10   15

Trp Met Leu Ala Arg Gly Gly Gly Gly Gly
            20   25

<210> 119
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Laminin related peptide

<400> 119

Met Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro
1   5   10   15

Asp Ser Gly Arg Gly Gly Gly Gly Gly
            20   25

<210> 120
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Laminin related peptide

<400> 120

Met Arg Gly Asp Arg Gly Asp Tyr Ile Gly Ser Arg Arg Gly Asp Gly
1   5   10   15

Gly Gly Gly Gly
            20

<210> 121
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Encoding Laminin related peptide, for PCR reaction to yield in-fr
      ame fusion to Fc

<400> 121
gaataacata tgtacatcgg ttctcgtggt ggaggcggtg gggacaaa   48

<210> 122
<211> 81
<212> DNA
<213> Artificial Sequence

<220>
<223> Encoding Laminin related peptide, for PCR reaction to yield in-fr
ame fusion to Fc

<400> 122
gaataacata tgtacatcgg ttctcgttat attggctccc gctacattgg tagccgtgac   60

aaaactcaca catgtccacc t   81

<210> 123
<211> 111
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<220>
<223> Encoding Laminin related peptide, for PCR reaction to yield in-fr
ame fusion to Fc

<400> 123
gaataacata tgtacatcgg ttctcgttat attggctccc gctacattgg tagccgttat   60

atcggctctc gctatattgg tagccgcgac aaaactcaca catgtccacc t   111

<210> 124
<211> 93
<212> DNA
<213> Artificial Sequence

<220>
<223> Encoding Laminin related peptide, for PCR reaction to yield in-fr
ame fusion to Fc

<400> 124
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atgctggctc gtggtggagg cggtggggac aaa   93

<210> 125
<211> 90
<212> DNA
<213> Artificial Sequence

<220>
<223> Encoding Laminin related peptide, for PCR reaction to yield in-fr
ame fusion to Fc

<400> 125
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tctggtcgtg gtggaggcgg tggggacaaa   90

<210> 126
<211> 75
<212> DNA
<213> Artificial Sequence

<220>
<223> Encoding Laminin related peptide, for PCR reaction to yield in-fr
ame fusion to Fc

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gaataacata tgcgtggtga ccgtggtgac tacatcggtt ctcgtcgtgg tgacggtgga    60

ggcggtgggg acaaa                                                     75


<210>  127
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Encoding Laminin related peptide, for PCR reaction to yield in-fr
       ame fusion to Fc

<400>  127
gttattgctc agcggtggca                                                20


<210>  128
<211>  10
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<220>
<223>  Laminin related peptide

<400>  128

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
1               5                   10


<210>  129
<211>  15
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Laminin related peptide

<400>  129

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg
1               5                   10                  15


<210>  130
<211>  20
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<213>  Artificial Sequence

<220>
<223>  Laminin related peptide

<400>  130

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr
1               5                   10                  15

Ile Gly Ser Arg
            20


<210>  131
<211>  25
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<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Laminin related peptide

<400>   131

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr
1   5   10   15

Ile Gly Ser Arg Tyr Ile Gly Ser Arg
            20   25

<210>   132
<211>   20
<212>   PRT
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<220>
<223>   Laminin related peptide

<400>   132

Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp Trp
1   5   10   15

Met Leu Ala Arg
            20

<210>   133
<211>   19
<212>   PRT
<213>   Artificial Sequence

<220>
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<400>   133

Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro Asp
1   5   10   15

Ser Gly Arg

<210>   134
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<212>   PRT
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<220>
<223>   Laminin related peptide

<400>   134

Arg Gly Asp Arg Gly Asp Tyr Ile Gly Ser Arg Arg Gly Asp
1   5   10

<210>   135
<211>   25

<212> PRT
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<220>
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<400> 135

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Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr
1               5                   10                  15

Ile Gly Ser Arg Tyr Ile Gly Ser Arg
            20              25
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